



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **65247** | Service: **DTV** | Call **WAWV-TV** | Channel: **18 (UHF)** |  
ID:  
File **0000028336**  
Number:  
FRN: **0004284899** | Date **03/06**  
Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>MISSION BROADCASTING, INC.</b>	30400 DETROIT ROAD SUITE 304 WESTLAKE, OH 44145 United States	+1 (440) 526- 2227	missionbroadcasting@gmail. com	Corporation

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Contact Information

### Preparer Contact Name and Information

Applicant	Address	Phone	Email
<b>William T. Godfrey , Jr. . Consulting Engineers Kessler and Gehman Associates, Inc.</b>	William T. Godfrey, Jr. Kessler and Gehman Associates, Inc. 507-D NW 60th Street Gainesville, FL 32607 United States	+1 (352) 332-3157	bill@kesslerandgehman. com

**Broadcaster  
Information  
and  
Transition  
Plan**

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Yes
Briefly describe transition plan	See attached document.

**Transmitters**

Section	Question	Response
Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

**Auxiliary  
Transmitter****Add Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Backup
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	UNKNOWN
	Year	2007
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	5 kW

**Auxiliary  
Transmitter****New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	UAXTE-12
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	5 kW
	Justification for New Transmitter	Existing transmitter cannot be converted to repacked channel per manufacturer.

**Auxiliary  
Transmitter****Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes
	Size	2 inches
	Length	50.0 feet
	Other Electrical Service	No

	Description	N/A
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Heating and Cooling
	Size	5 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Auxiliary Transmitter**      **Other Transmitter Cost Not Listed**  
Information not provided.

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	UNKNOWN
	Year	2009
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	50 kW

**Primary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	THU9EVO-20
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	31 kW
	Justification for New Transmitter	Existing transmitter cannot be converted to repacked channel per manufacturer and manufacturer is no longer in business. Updated make/model /power to R&S 31kW instead of a Gates 50kW. Lower cost.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	Yes
	Switchgear (industrial 800 amp)	Yes

	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	100.0 feet
	Other Electrical Service	No
	Description	N/A
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	100.0 square feet
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Primary Transmitter**      **Other Transmitter Cost Not Listed**  
Information not provided.



**Antennas**

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	Yes

**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	Yes
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels	64
	Design power capacity in use	75.0 %
	Lower Limit	600.00 MHz
	Upper Limit	630.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	2000.0 kW

	Manufacturer	
	Model	9551516
	Year	2007

**Facility ID's and Call Signs of  
all stations with whom the  
antenna is shared.**

Facility ID	Call Sign
20426	wtwo

Primary  
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	Yes
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels/Bays	64
	Lower Limit	470.00 MHz
	Upper Limit	630.00 MHz
	Design power capacity in use	75.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	3000.0 kW
	Manufacturer	

Model	TUA-16/64H-1-R-T
Year	2017
Justification for New Antenna	Existing broadband panel has VSWR problem at repacked channel. Manufacturer is no longer in business and no product support is available. It is known that antenna was modified earlier and could have reduced original operating range.

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	2
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	No
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes

	Broadband or Single Channel?	Broadband
	Feed Line Size	7 3/16 inches inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	No
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Enter a list of RF channel numbers.**

**RF Channel Number**

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**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	Yes
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
<b>New Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels/Bays	16
	Lower Limit	470.00 MHz
	Upper Limit	630.00 MHz
	Design power capacity in use	50.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	500.0 kW
	Manufacturer	
	Model	TUA-O4-04 /16
	Year	2017

	Justification for New Antenna	Station has no way to remain on the air except to acquire/use an interim antenna.
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## Interim Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	2
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	No
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	3 1/8 inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	No
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

Enter a list of RF channel numbers.

RF Channel Number



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18

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**Interim  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Transmission Line**

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

**Primary Transmission Line****Existing Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	910 feet per run

**Facility ID's and Call Signs of all stations with whom the transmission line is shared.**

Facility ID	Call Sign
20426	WTWO

Primary  
Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
T Line extension	Add 180 feet of 7" line to existing run to mate with antenna location.

**Tower Equipment And Rigging Costs**

Section	Question	Response
Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

**Primary Tower**

**Existing Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1027196
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	39° 14' 33.0" N-
	Longitude (NAD83)	087° 23' 29.0" W-
	Overall Structure Height	999.00 feet
	Support Structure Height	892.38 feet
	Ground Elevation Above Mean Sea Level (AMSL)	549.86 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Nexstar Broadcasting, Inc.
Date Constructed	07/01/1965

**FM, AM or TV radio  
broadcasters. Facility ID's,  
Call Signs and Services of  
other broadcast stations with  
whom the tower is shared**

Facility ID	Call Sign	Service
20426	WTWO	DTV

## Primary Tower

### Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Minor Reinforcements needed

## Primary Tower

### Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

**Primary  
Tower**

**Other Tower Expenses Not Listed**

Name	Description
<b>Weather Days</b>	Costs associated with tower crew unable to work due to adverse weather
<b>Additional Tower Modifications</b>	Tower should have been classified as "Serious" instead of "Minor".

**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	500
	Explanation	It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399. Station does not have available personnel or personnel trained in project management for such complex projects.
<b>Outside RF consulting Engineering Services</b>	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes

	Quantity	2
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	Yes



Number of Days	15
Justification	It is necessary to survey the site, plan the equipment, develop specifications for purchasing, & oversee multiple vendor RF projects. Station does not have available personnel trained in such services.

**Outside Professional Services Costs**      **Other Professional Services Expenses Not Listed**  
 Services provided.

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
<b>Permit and Filing Costs</b>	Local Zoning	Yes
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
<b>Other Miscellaneous Expenses</b>	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other  
Expenses**

**Other Expenses Not Listed**

Name	Description
Sales Tax	Sales and Use Tax for goods and services

## Cost Information

### Transmitters

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Primary Transmitter THU9EVO-20</b>	<b>\$2,482,800.00</b>	<b>\$848,445.41</b>		<b>\$787,245.41</b>	
Other -- Building Addition Size: 100.0	<i>\$5,000.00</i>	\$5,000.00	Need to move walls, plumbing, electrical wiring, lighting fixtures, etc.	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$5,000.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$37,150.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$550,518.75	See Rohde & Schwarz quote 802-045384.0 total cost \$745,165 less (\$8355) discount on full site survey and less (\$186,291.25) reported on TM 35-50kW line;	\$550,518.75	N/A

Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$14,050.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$236,726.66	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$236,726.66	N/A
<b>Auxiliary Transmitter UAXTE-12</b>	<b>\$295,250.00</b>	<b>\$288,200.00</b>		<b>\$18,271.00</b>	
Other -- HVAC Service Type: H Size:5 (Other)	\$19,250.00	\$19,250.00	N/A	\$18,271.00	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$1,300.00	\$1,300.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$37,150.00	N/A	N/A	N/A
UHF - Air Cooled Solid State Transmitter 4 - 6 kW	\$236,500.00	\$230,500.00	N/A	\$0.00	N/A
<b>Sub-total</b>	<b>\$2,778,050.00</b>	<b>\$1,136,645.41</b>	<b>N/A</b>	<b>\$805,516.41</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$5,011,156.19</b>	<b>\$2,956,053.35</b>	<b>N/A</b>	<b>\$1,549,926.44</b>	<b>N/A</b>

## Components

Actual Information	
Description	File Name
Other -- Building Addition Size: 100.0	Information not provided.
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	<b>Component Description:</b> Balance due on transmitter system <b>Amount:</b> \$550,518.75
Service entrance 3 phase /800 amp/208 volt	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<b>Component Description:</b> 25% Down payment on Transmitter System <b>Amount:</b> \$186,291.25  <b>Component Description:</b> Transmitter electrical work <b>Amount:</b> \$50,435.41  <b>Component Description:</b> see revised invoice entered on correct model <b>Amount:</b> N/A
Other -- HVAC Service Type: H Size:5 (Other)	<b>Component Description:</b> HVAC per quote, shared cost with WTWO 20426. See also sales tax 746.97 <b>Amount:</b> \$18,271.00

2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
UHF - Air Cooled Solid State Transmitter 4 - 6 kW	Information not provided.

## Cost Information

### Antennas

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Interim Antenna TUA-O4-04 /16</b>	<b>\$300,270.00</b>	<b>\$215,640.00</b>		<b>\$0.00</b>	
Elbow complex, broadband, at antenna input, per 3 1/8. feedline (if needed)	\$9,340.00	\$9,090.00	N/A	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$0.00	Use same combiner as purchased for new primary antenna.	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,550.00	N/A	N/A	N/A
UHF " Broadband Panel, Side Mount Auxiliary /Interim, 500 horizontally polarized	<i>\$200,000.00</i>	\$200,000.00	Use shorter antenna and fewer number of bays than full power panel	N/A	N/A
<b>Primary Antenna TUA-16 /64H-1-R-T</b>	<b>\$654,780.00</b>	<b>\$340,743.75</b>		<b>\$231,654.36</b>	



Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$12,903.75	Cost revised from \$16400 to \$12903.75; see lines 2-4 of Dielectric quote 700304CMZ-2; costs are shared equally between WAWV and WTWO FAC ID 20426; this amount represents WAWV 50% share of cost	\$11,613.36	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,550.00	N/A	\$2,880.00	N/A

UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, horizontally polarized	\$547,000.00	\$241,290.00	Cost reduced from \$532,000 to \$241,290; WAWV and WTWO (FAC ID 20426) are sharing antenna cost; therefore, 50% of the antenna cost on Dielectric quote 700304CMZ-2 is allocated to WAWV	\$217,161.00	N/A
<b>Sub-total</b>	\$955,050.00	\$556,383.75	N/A	\$231,654.36	N/A
<b>Total for all systems</b>	\$5,011,156.19	\$2,956,053.35	N/A	\$1,549,926.44	N/A

## Components

Actual Information	
Description	File Name
Elbow complex, broadband, at antenna input, per 3 1/8. feedline (if needed)	Information not provided.
New combiner, cost per channel (without antenna)	Information not provided.
Sweep test of existing antenna	Information not provided.
UHF " Broadband Panel, Side Mount Auxiliary/Interim, 500 horizontally polarized	Information not provided.

Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	<b>Component Description:</b>	Elbow component, line 2- 4 of invoice, shared cost with WTWO 20426.
	<b>Amount:</b>	\$5,806.68
	<b>Component Description:</b>	Other component, line 3 of invoice, shared cost with WTWO 20426.
	<b>Amount:</b>	N/A
	<b>Component Description:</b>	Other component, line 4 of invoice, shared cost with WTWO 20426.
	<b>Amount:</b>	N/A
	<b>Component Description:</b>	Other component, line 4 of invoice, shared cost with WTWO 20426.
	<b>Amount:</b>	N/A
	<b>Component Description:</b>	Other component, line 3 of invoice, shared cost with WTWO 20426.
	<b>Amount:</b>	N/A
	<b>Component Description:</b>	Elbow component, line 2- 4 of invoice, cost shared with WTWO 20426.
	<b>Amount:</b>	\$5,806.68
New combiner, cost per channel (without antenna)	Information not provided.	

Sweep test of existing antenna	<div> <div> <b>Component Description:</b> </div> <div> Line 5 of invoice, shared cost with WTWO 20426. </div> </div> <div> <b>Amount:</b> </div> <div> \$1,440.00 </div>
UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, horizontally polarized	<div> <div> <b>Component Description:</b> </div> <div> Line 5 of invoice, shared cost with WTWO 20426. </div> </div> <div> <b>Amount:</b> </div> <div> \$1,440.00 </div>
	<div> <div> <b>Component Description:</b> </div> <div> Antenna component, line 1 of invoice, cost share with WTWO 20426. </div> </div> <div> <b>Amount:</b> </div> <div> \$108,580.50 </div>
	<div> <div> <b>Component Description:</b> </div> <div> Antenna component, line 1 of invoice, shared cost with WTWO 20426. </div> </div> <div> <b>Amount:</b> </div> <div> \$108,580.50 </div>

Cost  
Information

Transmission Line

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$57,060.00	\$57,060.00		\$0.00	
T Line extension	<i>\$57,060.00</i>	\$57,060.00	180 feet of 7" BB T- Line.	N/A	N/A
Sub-total	\$57,060.00	\$57,060.00	N/A	\$0.00	N/A
Total for all systems	\$5,011,156.19	\$2,956,053.35	N/A	\$1,549,926.44	N/A

Components

Information not provided.

Cost  
Information

Tower Equipment and Rigging Costs

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$762,656.19	\$751,956.19		\$450,156.19	
Additional Tower Modifications	<i>\$326,156.19</i>	\$326,156.19	Tower should have been classified as "Serious" instead of "Minor". "Additional Tower Modifications" added to cover 50% share of tower mods PCI quote 17612-6 and 50% share of tower foundation mods PCI quote 17623-6 and addendum plus extra costs invoiced	\$326,156.19	N/A
Weather Days	<i>\$41,700.00</i>	\$41,700.00	See attached quotes from Precision Communications, Inc. (PCI).	\$41,700.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$205,000.00	N/A	\$82,300.00	N/A

Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,600.00	N/A	\$0.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$153,500.00	N/A	\$0.00	N/A
<b>Sub-total</b>	\$762,656.19	\$751,956.19	N/A	\$450,156.19	N/A
<b>Total for all systems</b>	\$5,011,156.19	\$2,956,053.35	N/A	\$1,549,926.44	N/A

## Components

Actual Information	
Description	File Name

Additional Tower  
Modifications

**Component Description:** Balance due on  
completion  
**Amount:** \$27,702.50

**Component Description:** Tower foundation  
modifications,  
installment #2  
**Amount:** \$16,570.00

**Component Description:** Tower  
modifications,  
installment #1  
**Amount:** \$82,100.00

**Component Description:** Tower foundation  
modifications,  
installment #1  
**Amount:** \$16,570.00

**Component Description:** Tower Modifications  
(PCI). Installment #2  
**Amount:** \$83,353.00

**Component Description:** Tower  
modifications,  
balance due on  
completion  
**Amount:** \$99,860.69



Weather Days	<div> <div> <b>Component Description:</b> </div> <div> Tower crew (Precision Communications, Inc.) experienced a significant number of weather delays. </div> </div> <div> <b>Amount:</b> </div> <div> \$25,950.00 </div>
	<div> <div> <b>Component Description:</b> </div> <div> Tower crew (Precision Communications, Inc.) experienced a significant number of weather delays. </div> </div> <div> <b>Amount:</b> </div> <div> \$15,750.00 </div>
Tall Tower (greater than 500')	<div> <div> <b>Component Description:</b> </div> <div> Main antenna replacement installment #2 </div> </div> <div> <b>Amount:</b> </div> <div> \$27,400.00 </div>
	<div> <div> <b>Component Description:</b> </div> <div> Main antenna replacement installment #1; see also sales tax. </div> </div> <div> <b>Amount:</b> </div> <div> \$27,400.00 </div>
	<div> <div> <b>Component Description:</b> </div> <div> Main antenna replacement balance due on completion </div> </div> <div> <b>Amount:</b> </div> <div> \$27,500.00 </div>
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Information not provided.

Minor tower reinforcement  
/modifications

<b>Component Description:</b>	Foundation Modification, installment #1
<b>Amount:</b>	\$16,570.00
<b>Component Description:</b>	Invoice should be submitted under Additional tower modifications
<b>Amount:</b>	(\$82,100.00)
<b>Component Description:</b>	Amount due on proposal acceptance for Tower Modifications. See also sales tax \$5,747.00.
<b>Amount:</b>	\$82,100.00
<b>Component Description:</b>	Foundation Modification, installment #2
<b>Amount:</b>	\$16,570.00

## Cost Information

### Outside Professional Services

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Outside Professional Services</b>	<b>\$200,650.00</b>	<b>\$196,660.00</b>		<b>\$9,346.00</b>	
Additional Field Engineering Service, 15 Days	<i>\$81,000.00</i>	\$81,000.00	N/A	N/A	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,050.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,050.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,170.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,305.00	N/A	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,120.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,070.00	N/A	\$1,000.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,535.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,070.00	N/A	\$0.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,170.00	N/A	\$1,925.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,560.00	N/A	N/A	N/A

Prepare and or review reimbursement form	\$2,630.00	\$2,560.00	N/A	\$1,225.00	N/A
Project management of the transition	\$79,000.00	\$77,000.00	N/A	\$5,196.00	N/A
<b>Sub-total</b>	\$200,650.00	\$196,660.00	N/A	\$9,346.00	N/A
<b>Total for all systems</b>	\$5,011,156.19	\$2,956,053.35	N/A	\$1,549,926.44	N/A

## Components

Actual Information	
Description	File Name
Additional Field Engineering Service, 15 Days	Information not provided.
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.

Prepare request for Special Temporary Authorization	<div> <div> <b>Component Description:</b> </div> <div> Prepare and submit STA, item 6 from invoice summary </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$1,000.00 </div> </div>
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.

Perform engineering study for new channel assignment and antenna development	<p><b>Component Description:</b></p>	<p>Services through end of April 2017. Information gathering, creation of transition plan with definition of initial equipment and service needs.</p> <p><b>Amount:</b> \$525.00</p>
	<p><b>Component Description:</b></p>	<p>Repack plan and revision, 399 form info, MCI Panel analysis</p> <p><b>Amount:</b> \$700.00</p>
	<p><b>Component Description:</b></p>	<p>Services through 7 /14/17. Revise storyboard if necessary, interference study, create CP and recalculate ERP if COR changed, transition plan document, create 399, coverage maps and upload draft docs.</p> <p><b>Amount:</b> \$700.00</p>
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	<p><b>Component Description:</b></p>	<p>See item 2 from invoice summary</p> <p><b>Amount:</b> \$1,225.00</p>
Project management of the transition		

<b>Component Description:</b>	Project management services 1.1.18 through 1.26.18
<b>Amount:</b>	\$75.00

<b>Component Description:</b>	Project management services 10.27.18 through 11.30.18
<b>Amount:</b>	\$1,550.00

<b>Component Description:</b>	Project management services 1.1.19 through 1.31.19.
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	Project management services 12.1.18 through 12.31.18
<b>Amount:</b>	\$75.00

<b>Component Description:</b>	Project management services May 26, 2018 through June 29, 2018.
<b>Amount:</b>	\$600.00

<b>Component Description:</b>	Project management services 9.29.18 through 10.26.18
<b>Amount:</b>	\$150.00



<b>Component Description:</b>	Project management services and consultant with supporting invoice
<b>Amount:</b>	\$675.00

<b>Component Description:</b>	Prepare FCC Schedule 387, item 3 from invoice summary
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	Various project management services, item 5 from invoice summary
<b>Amount:</b>	\$871.00

<b>Component Description:</b>	Project management services 10.27.17 through 12.31.17
<b>Amount:</b>	\$75.00

<b>Component Description:</b>	See item 1 from invoice summary
<b>Amount:</b>	\$225.00

<b>Component Description:</b>	Prepare FCC schedule 387, item 4 from invoice summary
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	Prepare FCC schedule 387, item 2 from invoice summary
<b>Amount:</b>	\$300.00

<b>Component Description:</b>	Project management services, item 1 from invoice summary
<b>Amount:</b>	\$825.00

<b>Component Description:</b>	Vendor has issued a revised invoice; see 29345R
<b>Amount:</b>	(\$675.00)

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Cost  
Information

Other Expenses

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$257,690.00	\$257,348.00		\$53,253.48	
Sales Tax	<i>\$210,000.00</i>	\$210,000.00	Sales and use tax for goods and services based on IN state rates.	\$53,253.48	N/A
MVPD Notification of Channel Change	<i>\$3,500.00</i>	\$3,500.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$1,500.00</i>	\$1,500.00	Costs to develop and produce spots and crawls for viewer notification	N/A	N/A
Equipment Storage	<i>\$1,000.00</i>	\$1,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$3,000.00</i>	\$3,000.00	N/A	N/A	N/A
Local Zoning	<i>\$500.00</i>	\$500.00	N/A	N/A	N/A

FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$195.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$333.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,250.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
<b>Sub-total</b>	\$257,690.00	\$257,348.00	N/A	\$53,253.48	N/A
<b>Total for all systems</b>	\$5,011,156.19	\$2,956,053.35	N/A	\$1,549,926.44	N/A

## Components

### Actual Information

Description	File Name
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Sales Tax	<table> <tr> <td><b>Component Description:</b></td><td>Sales tax on transmitter system</td></tr> <tr> <td><b>Amount:</b></td><td>\$46,606.00</td></tr> <tr> <td><b>Component Description:</b></td><td>See corrected invoice</td></tr> <tr> <td><b>Amount:</b></td><td>N/A</td></tr> <tr> <td><b>Component Description:</b></td><td>See revised invoice</td></tr> <tr> <td><b>Amount:</b></td><td>(\$5,747.00)</td></tr> <tr> <td><b>Component Description:</b></td><td>Sales tax on tower modification materials</td></tr> <tr> <td><b>Amount:</b></td><td>\$5,747.00</td></tr> <tr> <td><b>Component Description:</b></td><td>Sales tax on materials included on invoice</td></tr> <tr> <td><b>Amount:</b></td><td>\$153.51</td></tr> <tr> <td><b>Component Description:</b></td><td>Sales tax on Tower Modifications.</td></tr> <tr> <td><b>Amount:</b></td><td>\$5,747.00</td></tr> <tr> <td><b>Component Description:</b></td><td>Sales tax on HVAC, shared cost with WTWO 20426.</td></tr> <tr> <td><b>Amount:</b></td><td>\$746.97</td></tr> </table>	<b>Component Description:</b>	Sales tax on transmitter system	<b>Amount:</b>	\$46,606.00	<b>Component Description:</b>	See corrected invoice	<b>Amount:</b>	N/A	<b>Component Description:</b>	See revised invoice	<b>Amount:</b>	(\$5,747.00)	<b>Component Description:</b>	Sales tax on tower modification materials	<b>Amount:</b>	\$5,747.00	<b>Component Description:</b>	Sales tax on materials included on invoice	<b>Amount:</b>	\$153.51	<b>Component Description:</b>	Sales tax on Tower Modifications.	<b>Amount:</b>	\$5,747.00	<b>Component Description:</b>	Sales tax on HVAC, shared cost with WTWO 20426.	<b>Amount:</b>	\$746.97
<b>Component Description:</b>	Sales tax on transmitter system																												
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<b>Amount:</b>	\$746.97																												
MVPD Notification of Channel Change	Information not provided.																												
Develop and air announcement of upcoming channel change	Information not provided.																												

Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Local Zoning	Information not provided.
FCC Filing Fees - Special Temporary Authorization request	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
DTV Medical Facility Notification	Information not provided.
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.

**Cost  
Information**

**Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$5,011,156.19	\$2,956,053.35	\$1,549,926.44

**Reimbursement Status**

Question	Response
The facility has ceased operating on its pre-auction channel.	No
Construction of final facilities or all necessary modifications are complete.	No
All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator.	No

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> <li>1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.</li> </ol>	



4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

	<p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p>	
	<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Dennis P. Thatcher</b> <i>President</i></p> <p>03/06/2019</p>

## Attachments